

ASDSF
20.2.4.4 Vb



5129 N. Shirley St. Suite 100, Ruston, WA 98407

RECEIVED

MAR 16 2011

Environmental
Cleanup Office

March 15, 2011

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 177, February 2011
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



1382350

Monthly Report 177, February 2011

Operable Unit 02

Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Met with EPA on February 4th for monthly coordination.
2. Work with City of Tacoma on reimbursement sanitary sewer costs and beginning work on next phase of LID infrastructure construction.
3. Erosion control BMP's were maintained after storm events, including replacement of silt fences and exclusion zone fence. On-going maintenance continues.
4. Work with DNR to coordinate interim shoreline armoring and offshore sediment capping.
5. Continued weekly site-inspection reports (see attached).
6. Maintained clean work area and road.
7. Remedial Action activities continued.
8. Training activities include the following:
 - Site Safety Orientations (Clean Zone) was held for personnel of the following companies:
 - i. One (1) Emerald Services worker
 - ii. Two (2) Parametrix workers
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - Other relevant monitoring or training was verified or completed by personnel of the following companies:
 - i. One (1) Point Ruston worker (Arsenic Analysis)

B. *Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.*

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Monthly Report 177, February 2011
Operable Unit 02
Asarco Tacoma Smelter Site

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from May-October, and in December, February, and April.

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collected by Point Ruston on February 7th, 14th, 21st, and 28th. Results from samples collected are attached. There were no exceedances.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 117 gallons per day on the LCRS. 4,906 gallons of leachate were hauled on February 7. 4,812 gallons of leachate were hauled on February 18. Copies of the laboratory analysis for the shipments are attached (Arsenic 2.3 & 2.8 mg/L).
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions.. Perimeter air monitoring was not conducted in February due to wet site conditions caused by the weather. Perimeter air monitoring will resume when the weather allows the site to dry out.
4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in February.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:

Point Ruston submitted the final Temporary Cap Plan (Hydrometrics is working on a Site Wide Storm Water Plan, for submittal as part of the Temporary Cap Plan), received EPA approval of the BNSF Excavation & RA Plan, is working on comment responses to EPA comments on the Sequence of Development and Occupancy Plan (SDOP), submitted

Monthly Report 177, February 2011

Operable Unit 02

Asarco Tacoma Smelter Site

sampling results related to the Ruston Way SAP, and is restructuring the Operations Maintenance, and Monitoring Plan, CC&Rs and HOA OMMP budget.

2. Remedial Action included the following tasks:

- OCF construction activities:
 - Maintained leachate collection system.
 - Inspected storm drain system, vaults and cover.
- Stack Hill construction activities:
 - Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area.
 - Maintained site perimeter fence and signage at the north end of Stack Hill.
- Site-wide remediation/redevelopment activities:
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence along Ruston Way
 - Continued site-wide dust monitoring and control through site and access road watering, as needed
 - Continued air-monitoring program per CH&SP

D. Actions scheduled for the next six weeks.

1. Begin construction of water and power aspects of the MICMP public infrastructure. Set final plans to mylars and set anticipated pre-con with City of Tacoma, Town of Ruston and EPA in mid March.
2. Continue CH&SP air monitoring and respond to recently submitted comments from EPA contractor CH2MHill.
3. The BN Remedial Action Plan has been approved and the excavation and RA will be conducted in conjunction with the roadway and other MICMP work.
4. Point Ruston to resubmit plans regarding the Ruston Way cap based on final SAP results from BNSF RA and Ruston Way ROW property.
5. Continue to work on plans associated with Institutional Controls for the site, including Sequence of Development and Occupancy Plan, CC&Rs, and other HOA related documents as required per the Consent Decree.

Monthly Report 177, February 2011

Operable Unit 02

Asarco Tacoma Smelter Site

6. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan
7. Continue to work on response to EPA comments regarding the Point Ruston CC&Rs
8. Complete the ASARCO Dock Removal Project by DNR's contractor.
9. Complete interim shoreline armoring project through DN's contractor Pacific Pile and Marine.
10. Continue ongoing discussions with Metro Parks Tacoma on extension of Yacht Club Road and closure of Waterfront Drive.
11. Continue discussions with DNR regarding offsite liabilities for sediments and other aquatic lands.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities (not conducted during wet weather conditions when no work is underway).

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance
- b. Continue home construction

Site-wide construction activities:

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID processes are ongoing.

Monthly Report 177, February 2011

Operable Unit 02

Asarco Tacoma Smelter Site

2. Point Ruston is coordinating with BNSF to secure a quit claim deed for the area adjacent to Ruston Way; Point Ruston submitted EPA completion letter for SAP, and the second closing is pending.

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA and Point Ruston continue discussions regarding a proposed schedule modification. EPA allowed a SOW amendment, deleting the 50% cap dates, in exchange for an agreement to complete an interim temporary cap on the site.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues to work with MetroParks to incorporate the capping component into the Peninsula Park design. Point Ruston has responded to Metro Parks draft engineering analysis for the Peninsula Park site.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
4. The Washington Dept. of Natural Resources completed its demolition of the Asarco docks along the frontage of the site in late December. Point Ruston and DNR continue to discuss implementation of on-going cooperative efforts to complete the remaining in-water and shoreline armoring actions at the site.



Weekly Site Inspection Report No. 2011-0130

Week of: 1/30 – 2/5, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Cooling Pond	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Peninsula	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
54 th Street (electric)	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Signage:						
Gates	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Perimeter	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Safety	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
51 st & Gallagher	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Waddles	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Silt Fence	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Stockpiles:						
Envirotac II	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Plastic	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Packed	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Grass	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Dust:						
Traffic areas	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	Wet Soil Conditions
Excavation area	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
Zone Separation	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	<input checked="" type="radio"/> F	P	Y	<input checked="" type="radio"/> N	
Lower Site	G	<input checked="" type="radio"/> F	P	<input checked="" type="radio"/> Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-0130
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans: Site Superintendant Construction Super. Other						Preparing response to comments
	G	F	P	Y	N	
	G	F	P	Y	N	
	G	F	P	Y	N	Revising Appendix G (Air Monitoring)

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 30	N	N	No RA activity. Wet Conditions.
Mon 31	N	N	No RA activity. Wet Conditions.
Tue 1	N	N	No RA activity. Wet Conditions.
Wed 2	N	N	No RA activity. Wet Conditions.
Thu 3	N	N	No RA activity. Wet Conditions.
Fri 4	N	N	No RA activity. Wet Conditions.
Sat 5	N	N	No RA activity. Wet Conditions.

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 30	38°/43°; NNE Wind 6mph/Gust 18mph; Precipitation 0.02" (00:00-02:00)	
Mon 31	36°/43°; NNE Wind 4mph/Gust 13mph; No Precipitation	
Tue 1	31°/45°; NNE Wind 1mph/Gust 8mph; No Precipitation	
Wed 2	29°/47°; E Wind 1mph/Gust 6mph; No Precipitation	
Thu 3	38°/49°; SSW Wind 6mph/Gust 20mph; No Precipitation	
Fri 4	45°/50°; SSW Wind 9mph/Gust 29mph; Precipitation 0.06" (00:30-02:00 & 09:00-12:00)	
Sat 5	42°/47°; SW Wind 2mph/Gust 19mph; Precipitation 0.01" (09:30-10:30)	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 02/07/2011

SIGNED: 

TIM R.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-0206

Week of: 2/6 – 12, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	(G)	F	P	Y	(N)	
Cooling Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	Opened for Parametrix access to view PP&M work.
54 th Street (electric)	(G)	F	P	Y	(N)	Lock Maintenance – (Found unlocked on 11 th)
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	(G)	F	P	Y	(N)	(See Misc. Notes)
51 st & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	Wet Soil Conditions
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	(F)	P	Y	(N)	
Lower Site	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-0206
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans: Site Superintendant Construction Super. Other						Preparing response to comments
	G	F	P	Y	N	
	G	F	P	Y	N	
	G	F	P	Y	N	Revising Appendix G (Air Monitoring)

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Docks: PP&M demo'd "T" Pier offshore of peninsula and placed additional sediment cap materials

Public Streets (Ruston Way): Man seen in gravel area where public likes to park near 49th & Ruston Way. He is raking & sifting gravel through milk crates, placing larger rocks in potholes. Says he is just doing it as a public service and needs the exercise. Started about a week ago at edge of Water-Walk and is working across lot from SE to NW. This area has been remediated. He creates localized dust while raking and sifting when conditions are dry.

Air Monitoring:

Day of Week		Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	6	N	N	No RA activity. Wet Conditions.
Mon	7	N	N	No RA activity. Wet Conditions.
Tue	8	N	N	No RA activity. Wet Conditions.
Wed	9	N	N	No RA activity. Wet Conditions.
Thu	10	N	N	No RA activity. Wet Conditions.
Fri	11	N	N	No RA activity. Wet Conditions.
Sat	12	N	N	No RA activity. Wet Conditions.

WEATHER:

Day of Week		(LOW/HIGH)	Summary of Weather Conditions
Sun	6	43°/50°; SSW	Wind 6mph / Gust 22mph; Precipitation 0.08"(Scattered)
Mon	7	38°/49°; SW	Wind 9mph / Gust 22mph; Precipitation 0.18" (evening 17:00-midnight)
Tue	8	38°/45°; NNE	Wind 3mph / Gust 9mph; Precipitation 0.03" (early morning)
Wed	9	31°/45°; NE	Wind 1mph / Gust 4mph; No Precipitation
Thu	10	30°/47°; NNE	Wind 1mph / Gust 12mph; No Precipitation
Fri	11	36°/48°; SSW	Wind 1mph / Gust 13mph; No Precipitation
Sat	12	41°/54°; SSW	Wind 8mph / Gust 24mph; Precipitation 0.42" (evening 15:00- 22:30)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 2/14/2011

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2011-0213

Week of: 2/13 - 19, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	G	F	P	Y	N	
Cooling Pond	G	F	P	Y	N	
Peninsula	G	F	P	Y	N	
54 th Street (electric)	G	F	P	Y	N	
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	Man from last report still raking/sifting gravel
51 st & Gallagher	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
Dust:						Wet Soil Conditions
Traffic areas	G	F	P	Y	N	
Excavation area	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	(See Misc. Notes)
Zone Separation	G	F	P	Y	N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	F	P	Y	N	
Lower Site	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-0213
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans: Site Superintendant Construction Super. Other						Preparing response to comments
	G	F	P	Y	N	
	G	F	P	Y	N	
	G	F	P	Y	N	Revising Appendix G (Air Monitoring)

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Fencing (Perimeter): 2/15/11 - Found purse believed to have been thrown over fence from Ruston Way south of tunnel during fence maintenance. Turned over to Ruston PD.

Fencing (Perimeter): 2/18/11 - 2 women climbed over perimeter fence on Gallagher and walked through exclusion zone to south end of tunnel and climbed back over to street. Ruston PD contacted them along Ruston Way and gave them a verbal warning for trespassing and advised of the potential exposure to site contaminants.

Air Monitoring:

Day of Week		Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	13	N	N	No RA activity. Wet Conditions.
Mon	14	N	N	No RA activity. Wet Conditions.
Tue	15	N	N	No RA activity. Wet Conditions.
Wed	16	N	N	No RA activity. Wet Conditions.
Thu	17	N	N	No RA activity. Wet Conditions.
Fri	18	N	N	No RA activity. Wet Conditions.
Sat	19	N	N	No RA activity. Wet Conditions.

WEATHER:

Day of Week		(LOW/HIGH)	Summary of Weather Conditions
Sun	13	41°/52°; SSW	Wind 4mph / Gust 19mph; Precipitation 0.2" (late evening 20:00-23:00)
Mon	14	40°/51°; SSW	Wind 5mph / Gust 26mph; Precipitation 0.54" (scattered)
Tue	15	38°/46°; SSW	Wind 4mph / Gust 19mph; Precipitation 0.09" (noon)
Wed	16	33°/42°; SSW	Wind 6mph / Gust 20mph; Precipitation 0.07" (scattered afternoon)
Thu	17	33°/43°; SW	Wind 5mph / Gust 17mph; Precipitation 0.04" (morning & afternoon)
Fri	18	31°/44°; NW	Wind 2mph / Gust 16mph; No Precipitation
Sat	19	36°/42°; NNE	Wind 9mph / Gust 23mph; No Precipitation

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 2/21/2011

SIGNED: 

Tim R.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2011-0220

Week of: 2/20 - 26, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	(G)	F	P	Y	(N)	
Cooling Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	(See Misc. Notes)
Public Streets:						
Ruston Way	(G)	F	P	Y	(N)	Man from last report still raking/sifting gravel offsite.
51 st & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						Wet Soil Conditions
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	(See Misc. Notes)
Zone Separation	(G)	F	P	Y	(N)	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	F	(P)	(Y)	N	
Lower Site	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-0220
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	Revising Appendix G (Air Monitoring)

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Fencing (Perimeter): 2/23/11 – Contacted 1 worker with Morgan Industrial, Inc. and 2 workers with Apex Directional Drilling, LLC at the closed portion of Baltimore above the tunnel. They had been seen walking on site in the exclusion zone above the tunnels. They were advised of site conditions, Superfund status and requirements to coordinate access, if needed, with Point Ruston. They said they were previewing work to be done for BNSF. Contact info exchanged.

Signage (other): 02/24/11 – Two marketing signs from Stack Hill Lot 32 were taken and used as sleds in snow on Baltimore sometime during the night. Signs were recovered and replaced. Ruston PD notified.

Cooling Pond: 2/24/11 – Turned off pump to allow water to rise to protect pump from freezing.

Air Monitoring:

Day of Week	HI-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 20	N	N	No RA activity. Wet Conditions.
Mon 21	N	N	No RA activity. Wet Conditions.
Tue 22	N	N	No RA activity. Wet Conditions.
Wed 23	N	N	No RA activity. Wet Conditions.
Thu 24	N	N	No RA activity. Wet Conditions.
Fri 25	N	N	No RA activity. Wet Conditions.
Sat 26	N	N	No RA activity. Wet Conditions.

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 20	27°/46°; SW	Wind 3mph / Gust 15mph; No Precipitation
Mon 21	33°/45°; SSW	Wind 5mph / Gust 19mph; Precipitation 0.01" (evening 18:00-19:00)
Tue 22	34°/44°; SW	Wind 8mph / Gust 23mph; No Precipitation
Wed 23	29°/36°; SSW	Wind 7mph / Gust 19mph; Precipitation 0.09" (evening 14:00-19:30) Snow
Thu 24	28°/34°; NE	Wind 5mph / Gust 13mph; Precipitation 0.05" (afternoon & evening) Snow
Fri 25	26°/31°; NE	Wind 7mph / Gust 17mph; No Precipitation
Sat 26	19°/32°; SSW	Wind 5mph / Gust 16mph; No Precipitation

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 02/28/2011

SIGNED: 

TIM R

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer

ANALYTICAL SUMMARY REPORT

January 27, 2011

Point Ruston LLC
5219 N Shirley St Ste 100
Ruston, WA 98407-6599

Workorder No.: B11011653

Project Name: Tacoma Smelter OCF Leachate Tank

Energy Laboratories Inc Billings MT received the following 1 sample for Point Ruston LLC on 1/25/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B11011653-001	TSM011121, OCF	01/21/11 16:21	01/25/11	Aqueous	Metals by ICP, Total Metals Preparation by EPA 200.2

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:


Technical Data ReviewerDigitally signed by
Ruby L Stafford

Date: 2011.01.27 15:58:24 -07:00

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter OCF Leachate Tank
Lab ID: B11011653-001
Client Sample ID TSM011121, OCF

Report Date: 01/27/11
Collection Date: 01/21/11 16:21
Date Received: 01/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	2.3	mg/L		0.1		E200.7	01/26/11 22:13 / tao

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 01/27/11

Project: Tacoma Smelter OCF Leachate Tank

Work Order: B11011653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Analytical Run: ICP202-B_110126A		
Sample ID: ICV	Continuing Calibration Verification Standard								01/26/11 10:58
Arsenic	2.60	mg/L	0.10	104	95	105			
Method: E200.7							Batch: 51777		
Sample ID: MB-51777	Method Blank				Run: ICP202-B_110126A			01/26/11 21:36	
Arsenic	ND	mg/L	0.03						
Sample ID: LCS-51777	Laboratory Control Sample				Run: ICP202-B_110126A			01/26/11 21:39	
Arsenic	0.500	mg/L	0.031	100	85	115			
Sample ID: B11011604-002AMS3	Sample Matrix Spike				Run: ICP202-B_110126A			01/26/11 21:54	
Arsenic	0.520	mg/L	0.031	104	70	130			
Sample ID: B11011604-002AMSD3	Sample Matrix Spike Duplicate				Run: ICP202-B_110126A			01/26/11 21:58	
Arsenic	0.523	mg/L	0.031	105	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1932

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-666-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 01/27/11

Project: Tacoma Smelter OCF Leachate Tank

Work Order: B11011653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									
Analytical Run: ICP202-B_110126A									
Sample ID: QCS	Initial Calibration Verification Standard								01/26/11 10:54
Arsenic	0.840	mg/L	0.10	105	90	110			
Sample ID: ICSA	Interference Check Sample A								01/26/11 11:09
Arsenic	0.0227	mg/L	0.10		0	0			
Sample ID: ICSAB	Interference Check Sample AB								01/26/11 11:13
Arsenic	1.09	mg/L	0.10	109	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B11011653

Login completed by: Darwin C. Miller

Date Received: 1/25/2011

Reviewed by: BL2000\kmcDonald

Received by: jlw

Reviewed Date: 1/26/2011

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	4.7°C		
ter - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None

POINT RUSTON

Figure 1: Distribution of 1000 respondents by age group. The chart shows a distribution where the 18-24 age group is the largest, followed by 25-34, 35-44, 45-54, 55-64, 65-74, and 75+.

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
TACOMA SMELTER		O.C.F. LEACHATE TANK					
SAMPLERS: (Signature)							
JENNIFER RUSHER (By <i>[Signature]</i> TMR)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
1-21-11	OCF	16:21		✓	TSM011121 B1011653-001	✓	PLEASE EMAIL RESULTS TO: TIM2@BINTRUSTON.COM
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%) rotate(45deg); font-size: 2em; opacity: 0.5;"> THANK YOU </div>							
Relinquished (Signature)			Date/Time		Received by: (Signature)		Lab
<i>[Signature]</i> TMR			1/24/11 (FEDEX)				Shipped via: FedEx, UPS or Other
Relinquished (Signature)			Date/Time		Received by: (Signature)		Remarks
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature)		Date/Time 1/25/11
					<i>[Signature]</i>		Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples:							
() Accepted () Declined							Signature



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4488 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

ANALYTICAL SUMMARY REPORT

February 10, 2011

Point Ruston LLC
5219 N Shirley St Ste 100
Ruston, WA 98407-6599

Workorder No.: B11020553

Project Name: Tacoma Smelter OCF Leachate Tank

Energy Laboratories Inc Billings MT received the following 1 sample for Point Ruston LLC on 2/8/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B11020553-001	TSM021107, OCF	02/07/11 11:15	02/08/11	Aqueous	Metals by ICP, Total Metals Preparation by EPA 200.2

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Cindy Rohrer
Inorganic Department Manager

Digitally signed by
Cindy Rohrer

Date: 2011.02.10 16:29:38 -07:00



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4488 • Casper, WY 888-235-0515
Gillette, WY 866-688-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-688-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter OCF Leachate Tank
Lab ID: B11020553-001
Client Sample ID: TSM021107, OCF

Report Date: 02/10/11
Collection Date: 02/07/11 11:15
Date Received: 02/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	2.4	mg/L		0.1		E200.7	02/09/11 21:24 / tao

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 02/10/11

Project: Tacoma Smelter OCF Leachate Tank

Work Order: B11020553

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7					Analytical Run: ICP202-B_110209B				
Sample ID: ICV					Continuing Calibration Verification Standard				
Arsenic	2.55	mg/L	0.10	102	95	105			02/09/11 14:05
Method: E200.7					Batch: 52011				
Sample ID: MB-52011					Method Blank				
Arsenic	ND	mg/L	0.03						Run: ICP202-B_110209B 02/09/11 20:21
Sample ID: LCS-52011					Laboratory Control Sample				
Arsenic	0.455	mg/L	0.031	91	85	115			Run: ICP202-B_110209B 02/09/11 20:32
Sample ID: B11020521-001BMS3					Sample Matrix Spike				
Arsenic	0.477	mg/L	0.062	95	70	130			Run: ICP202-B_110209B 02/09/11 20:47
Sample ID: B11020521-001BMDS3					Sample Matrix Spike Duplicate				
Arsenic	0.470	mg/L	0.062	94	70	130	1.6	20	Run: ICP202-B_110209B 02/09/11 20:51

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist


B11020553

Login completed by: Gina McCartney

Date Received: 2/8/2011

Reviewed by: BL2000\kmcDonald

Received by: grc

Reviewed Date: 2/8/2011

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	7.6°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO TACOMA SMELTER		PROJECT NAME O.C.F. LEACHATE TANK		NO. OF CONTAINERS AS		REMARKS	
SAMPLERS: (Signature) 							
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER		
2/7/11	11	11:15		✓	TSM021107	1	✓
						B1102053-001	
						PLEASE EMAIL RESULTS To:	
						TIM@POINTRUSTON.COM	
						THANK YOU	
Relinquished (Signature) 		Date/Time 2/7/2011		Received by: (Signature) 2/8/11 		Lab ENERGY	
Relinquished (Signature) 		Date/Time		Received by: (Signature)		Shipped via FedEx UPS or Other Air Bill #	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks 7.6° custody seal intact on 600 sample container	
						Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined						Signature	

Table 1. Summary of February 2011 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.016	3.25%	0.000	0.00%	0.000	0.00%
OSW2	0.039	7.70%	0.000	0.00%	0.008	1.50%
North Outfall	0.054	10.80%	0.000	0.00%	0.023	4.50%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

ANALYTICAL SUMMARY REPORT

March 03, 2011

Point Ruston LLC
 5219 N Shirley St Ste 100
 Ruston, WA 98407-6599

Workorder No.: B11030035

Project Name: Tacoma Smelter Outfall Samples

Energy Laboratories Inc Billings MT received the following 12 samples for Point Ruston LLC on 3/1/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B11030035-001	North, TSM0211407	02/07/11 9:59	03/01/11	Aqueous	Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2
B11030035-002	South, TSM0211107	02/07/11 9:48	03/01/11	Aqueous	Same As Above
B11030035-003	OSW-2, TSM0211207	02/07/11 9:49	03/01/11	Aqueous	Same As Above
B11030035-004	North, TSM0211414	02/14/11 10:53	03/01/11	Aqueous	Same As Above
B11030035-005	South, TSM0211114	02/14/11 10:33	03/01/11	Aqueous	Same As Above
B11030035-006	OSW-2, TSM0211214	02/14/11 10:32	03/01/11	Aqueous	Same As Above
B11030035-007	North, TSM0211421	02/21/11 9:58	03/01/11	Aqueous	Same As Above
B11030035-008	South, TSM0211121	02/21/11 9:28	03/01/11	Aqueous	Same As Above
B11030035-009	OSW-2, TSM0211221	02/21/11 9:29	03/01/11	Aqueous	Same As Above
B11030035-010	North, TSM0211428	02/28/11 10:35	03/01/11	Aqueous	Same As Above
B11030035-011	South, TSM0211128	02/28/11 10:16	03/01/11	Aqueous	Same As Above
B11030035-012	OSW-2, TSM0211228	02/28/11 10:17	03/01/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:


 Supervisor, Wet Chemistry

Digitally signed by
 Keri Conter

Date: 2011.03.04 16:23:02 -07:00

COPY



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-688-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-001
Client Sample ID: North, TSM0211407

Report Date: 03/03/11
Collection Date: 02/07/11 09:59
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.017	mg/L		0.005		E200.8	03/02/11 13:55 / jjw
Lead	ND	mg/L		0.01		E200.8	03/02/11 13:55 / jjw
Zinc	ND	mg/L		0.01		E200.8	03/02/11 13:55 / jjw

**Report
Definitions:**

RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-002
Client Sample ID: South, TSM0211107

Report Date: 03/03/11
Collection Date: 02/07/11 09:48
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.048	mg/L		0.005		E200.8	03/02/11 14:00 / jjw
Lead	ND	mg/L		0.01		E200.8	03/02/11 14:00 / jjw
Zinc	0.02	mg/L		0.01		E200.8	03/02/11 14:00 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-688-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-003
Client Sample ID: OSW-2, TSM0211207

Report Date: 03/03/11
Collection Date: 02/07/11 09:49
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.040	mg/L		0.005		E200.8	03/02/11 19:55 / mas
Lead	ND	mg/L		0.01		E200.8	03/02/11 19:55 / mas
Zinc	ND	mg/L		0.01		E200.8	03/02/11 19:55 / mas

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-004
Client Sample ID: North, TSM0211414

Report Date: 03/03/11
Collection Date: 02/14/11 10:53
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.015	mg/L		0.005		E200.8	03/02/11 14:05 / jjw
Lead	ND	mg/L		0.01		E200.8	03/02/11 14:05 / jjw
Zinc	ND	mg/L		0.01		E200.8	03/02/11 14:05 / jjw

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-005
Client Sample ID: South, TSM0211114

Report Date: 03/03/11
Collection Date: 02/14/11 10:33
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.053	mg/L		0.005		E200.8	03/02/11 19:59 / mas
Lead	ND	mg/L		0.01		E200.8	03/02/11 19:59 / mas
Zinc	0.01	mg/L		0.01		E200.8	03/02/11 19:59 / mas

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-006
Client Sample ID: OSW-2, TSM0211214

Report Date: 03/03/11
Collection Date: 02/14/11 10:32
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.032	mg/L		0.005		E200.8	03/02/11 14:10 / jjw
Lead	ND	mg/L		0.01		E200.8	03/02/11 14:10 / jjw
Zinc	ND	mg/L		0.01		E200.8	03/02/11 14:10 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-698-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-007
Client Sample ID: North, TSM0211421

Report Date: 03/03/11
Collection Date: 02/21/11 09:58
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.015	mg/L		0.005		E200.8	03/02/11 20:03 / mas
Lead	ND	mg/L		0.01		E200.8	03/02/11 20:03 / mas
Zinc	ND	mg/L		0.01		E200.8	03/02/11 20:03 / mas

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-008
Client Sample ID: South, TSM0211121

Report Date: 03/03/11
Collection Date: 02/21/11 09:28
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.066	mg/L		0.005		E200.8	03/02/11 20:07 / mas
Lead	ND	mg/L		0.01		E200.8	03/02/11 20:07 / mas
Zinc	0.02	mg/L		0.01		E200.8	03/02/11 20:07 / mas

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1882

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-688-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-688-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-009
Client Sample ID: OSW-2, TSM0211221

Report Date: 03/03/11
Collection Date: 02/21/11 09:29
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.053	mg/L		0.005		E200.8	03/02/11 20:11 / mas
Lead	ND	mg/L		0.01		E200.8	03/02/11 20:11 / mas
Zinc	0.02	mg/L		0.01		E200.8	03/02/11 20:11 / mas

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-010
Client Sample ID: North, TSM0211428

Report Date: 03/03/11
Collection Date: 02/28/11 10:35
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.018	mg/L		0.005		E200.8	03/02/11 20:15 / mas
Lead	ND	mg/L		0.01		E200.8	03/02/11 20:15 / mas
Zinc	ND	mg/L		0.01		E200.8	03/02/11 20:15 / mas

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1932

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-011
Client Sample ID: South, TSM0211128

Report Date: 03/03/11
Collection Date: 02/28/11 10:16
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.049	mg/L		0.005		E200.8	03/02/11 14:14 / jjw
Lead	ND	mg/L		0.01		E200.8	03/02/11 14:14 / jjw
Zinc	0.04	mg/L		0.01		E200.8	03/02/11 14:14 / jjw

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11030035-012
Client Sample ID: OSW-2, TSM0211228

Report Date: 03/03/11
Collection Date: 02/28/11 10:17
Date Received: 03/01/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.029	mg/L		0.005		E200.8	03/02/11 20:19 / mas
Lead	ND	mg/L		0.01		E200.8	03/02/11 20:19 / mas
Zinc	0.01	mg/L		0.01		E200.8	03/02/11 20:19 / mas

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Project: Tacoma Smelter Outfall Samples

Report Date: 03/03/11

Work Order: B11030035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8					Analytical Run: ICPMS202-B_110302A				
Sample ID: QCS - 101221A, 101222A Initial Calibration Verification Standard					03/02/11 10:36				
Arsenic	0.0496	mg/L	0.0050	99	90	110			
Lead	0.0508	mg/L	0.010	102	90	110			
Zinc	0.0517	mg/L	0.010	103	90	110			
Method: E200.8					Batch: 52374				
Sample ID: MB-52374 Method Blank					Run: ICPMS202-B_110302A 03/02/11 19:21				
Arsenic	ND	mg/L	0.0002						
Lead	5E-05	mg/L	1E-05						
Zinc	0.0007	mg/L	0.0002						
Sample ID: LCS-52374 Laboratory Control Sample					Run: ICPMS202-B_110302A 03/02/11 21:01				
Arsenic	0.461	mg/L	0.0050	92	85	115			
Lead	0.473	mg/L	0.010	95	85	115			
Zinc	0.472	mg/L	0.010	94	85	115			
Sample ID: B11030035-003AMS3 Sample Matrix Spike					Run: ICPMS202-B_110302A 03/02/11 21:04				
Arsenic	0.522	mg/L	0.0050	96	70	130			
Lead	0.484	mg/L	0.010	96	70	130			
Zinc	0.491	mg/L	0.010	97	70	130			
Sample ID: B11030035-003AMSD3 Sample Matrix Spike Duplicate					Run: ICPMS202-B_110302A 03/02/11 21:08				
Arsenic	0.508	mg/L	0.0050	94	70	130	2.6	20	
Lead	0.488	mg/L	0.010	97	70	130	0.7	20	
Zinc	0.477	mg/L	0.010	94	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 03/03/11

Project: Tacoma Smelter Outfall Samples

Work Order: B11030035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8					Analytical Run: ICPMS203-B_110302A				
Sample ID: QCS-101221A, 101222A, Initial Calibration Verification Standard					03/02/11 10:42				
Arsenic	0.0487	mg/L	0.0050	97	90	110			
Lead	0.0484	mg/L	0.010	97	90	110			
Zinc	0.0520	mg/L	0.010	104	90	110			
Method: E200.8					Batch: R161911				
Sample ID: LRB Method Blank					Run: ICPMS203-B_110302A 03/02/11 11:24				
Arsenic	ND	mg/L	2E-05						
Lead	ND	mg/L	3E-06						
Zinc	0.0008	mg/L	0.0001						
Sample ID: LFB Laboratory Fortified Blank					Run: ICPMS203-B_110302A 03/02/11 11:29				
Arsenic	0.0504	mg/L	0.0050	101	85	115			
Lead	0.0498	mg/L	0.010	100	85	115			
Zinc	0.0503	mg/L	0.010	99	85	115			
Sample ID: B11030034-001BMS Sample Matrix Spike					Run: ICPMS203-B_110302A 03/02/11 13:23				
Arsenic	0.0530	mg/L	0.0050	103	70	130			
Lead	0.0508	mg/L	0.010	101	70	130			
Zinc	0.128	mg/L	0.010	85	70	130			
Sample ID: B11030034-001BMSD Sample Matrix Spike Duplicate					Run: ICPMS203-B_110302A 03/02/11 13:27				
Arsenic	0.0515	mg/L	0.0050	100	70	130	3.0	20	
Lead	0.0508	mg/L	0.010	101	70	130	0.1	20	
Zinc	0.128	mg/L	0.010	85	70	130	0.2	20	
Sample ID: B11030108-001BMS Sample Matrix Spike					Run: ICPMS203-B_110302A 03/02/11 14:52				
Arsenic	0.0619	mg/L	0.0050	117	70	130			
Lead	0.0549	mg/L	0.010	110	70	130			
Zinc	0.0607	mg/L	0.010	104	70	130			
Sample ID: B11030108-001BMSD Sample Matrix Spike Duplicate					Run: ICPMS203-B_110302A 03/02/11 14:57				
Arsenic	0.0561	mg/L	0.0050	105	70	130	9.8	20	
Lead	0.0495	mg/L	0.010	99	70	130	10	20	
Zinc	0.0560	mg/L	0.010	95	70	130	8.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B11030035

Login completed by: Lisa Gancze

Date Received: 3/1/2011

Reviewed by: BL2000\kmcDonald

Received by: jlw

Reviewed Date: 3/2/2011

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	5.2°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

 Contact and Corrective Action Comments:

None

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	REMARKS			
TACOMA SMELTER		OUTFALLS SAMPLES								
SAMPLER'S (Signature)										
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER					
2/7/11	NORTH	9:59		✓	TSM0211407	1	✓		BV030035-001	
2/7/11	SOUTH	9:48		✓	TSM0211107	1	✓		-002	
2/7/11	OSW-2	9:49		✓	TSM0211207	1	✓		-003	
2/14/11	NORTH	10:53		✓	TSM0211414	1	✓		-004	
2/14/11	SOUTH	10:33		✓	TSM0211114	1	✓		-005	
2/14/11	OSW-2	10:32		✓	TSM0211214	1	✓		-006	
2/21/11	NORTH	9:58		✓	TSM0211421	1	✓		-007	
2/21/11	SOUTH	9:28		✓	TSM0211121	1	✓		-008	
2/21/11	OSW-2	9:29		✓	TSM0211221	1	✓		-009	
2/28/11	NORTH	10:35		✓	TSM0211428	1	✓		-010	
2/28/11	SOUTH	10:16		✓	TSM0211128	1	✓		-011	
2/28/11	OSW-2	10:17		✓	TSM0211228	1	✓		-012	
Relinquished (Signature)						Date/Time		Received by: (Signature)		
[Signature]						2/28/11		FedEx		
Relinquished (Signature)						Date/Time		Received by: (Signature)		
[Signature]										
Relinquished (Signature)						Date/Time		Received for Laboratory by: (Signature)		
[Signature]								[Signature]		
								Date/Time		
								9:20am		
								3/1/11		
								Enclosed:		
								<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter		
								Split Samples:		
								<input type="checkbox"/> Accepted <input type="checkbox"/> Declined		

THANK YOU!
[Smiley Face]

[Signature]
Fedex express